**ANT-129-001**

*4G/LTE Cross-Polarized (MIMO) 7-10 dBi Panel Antenna*

### Applications
- High Gain Directional Signal Enhancement
- 4G/LTE Modems, Routers & Hotspots
- Poor Signal Coverage Areas
- Indoor or Outdoor Use
- Home / Office / Commercial Installations

### Product Features
- Cross-Polarized MIMO Elements for Improved Signal Quality & Performance
- Wide Beamwidth for Easy Positioning
- Weatherproof, Compact & Light-weight
- N Female Connectors
- Pole or Wall Mountable
- Compatible with all 4G/LTE Networks
- Compatible with most 4G/LTE Modems/Routers

### Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT-129-001</td>
<td>Proxicast 4G/LTE Cross-Polarized (MIMO) 7-10 dBi Fixed-Mount Panel Antenna</td>
</tr>
</tbody>
</table>

### General Description

Proxicast's dual polarized directional LTE MIMO antenna is ideal for signal enhancement in virtually any cellular application.

It is compatible with all 3G and 4G/LTE data services from Verizon, AT&T, Sprint, T-Mobile, Bell Mobility, Rogers, Telus and most other cellular operators worldwide.

The antenna incorporates two separately fed ultra wideband elements in a single housing which focus radio energy into a 75 degree beam enabling connection to distant cell towers. The elements are set at 45 degree angles to provide cross-polarized multiple input / multiple output (MIMO) connectivity for LTE radio equipment resulting in higher performance.

With appropriate adapter cables (not included), this antenna is compatible with cellular modems, hotspots and routers from Cisco, Cradlepoint, Digi, Pepwave, Proxicast, Sierra Wireless and others.

The antenna’s compact, light-weight rugged housing, heavy duty mounting hardware and corrosion-resistant materials make it ideal for outdoor applications including building rooftops, utility poles, or surveillance trailers.
## Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range (all major cellular bands)</td>
<td>698–960 MHz</td>
</tr>
<tr>
<td></td>
<td>1710–2030 MHz</td>
</tr>
<tr>
<td></td>
<td>2110–2200 MHz</td>
</tr>
<tr>
<td></td>
<td>2300–2390 MHz</td>
</tr>
<tr>
<td></td>
<td>2500–2690 MHz</td>
</tr>
<tr>
<td>Peak Gain</td>
<td>7 -10 dBi frequency dependent</td>
</tr>
<tr>
<td>Beam Width Horizontal</td>
<td>70° / 75°</td>
</tr>
<tr>
<td>Beam Width Vertical</td>
<td>75° / 60°</td>
</tr>
<tr>
<td>VSWR</td>
<td>≤1.8:1</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>50 Ohm</td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical + Horizontal @ ±45° (90° relative)</td>
</tr>
<tr>
<td>Max Input Power</td>
<td>50 W</td>
</tr>
<tr>
<td>Ground Plane</td>
<td>Not Required</td>
</tr>
<tr>
<td>DC Grounded</td>
<td>No</td>
</tr>
</tbody>
</table>

## Mechanical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector Type</td>
<td>2x N Female (jack)</td>
</tr>
<tr>
<td>Cable Length</td>
<td>12 in (300mm) RG58U low-loss coax</td>
</tr>
<tr>
<td>Mounting</td>
<td>Pole or Wall – Pole Mounting Bracket included</td>
</tr>
<tr>
<td></td>
<td>1.2 in min, 2.0 in max dia pole (30 – 50 mm)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>11.8 x 7.2 X 2.75 in (300 x 183 x 70 mm)</td>
</tr>
<tr>
<td>Materials</td>
<td>Radome: UV stabilized ABS plastic</td>
</tr>
<tr>
<td></td>
<td>Connector: Brass</td>
</tr>
<tr>
<td></td>
<td>Mounting: Aluminum / Stainless</td>
</tr>
<tr>
<td></td>
<td>U-Bolts: Hot Dipped Galvanized Steel</td>
</tr>
<tr>
<td>Antenna Color</td>
<td>Ivory</td>
</tr>
<tr>
<td>Weight</td>
<td>1.4 lb (0.64 kg) excluding mounting hardware</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +60°C</td>
</tr>
</tbody>
</table>

Operation of this device outside the parameter ranges given above may cause permanent damage.
Highlighted areas represent the primary 3G/4G/LTE frequency bands.
800 MHz

Horizontal (Azimuth) Plane

Vertical (Elevation) Plane

Radiation Patterns
ANT-129-001
4G/LTE Cross-Polarized (MIMO) 7-10 dBi Panel Antenna

Radiation Patterns

1900 MHz

Horizontal (Azimuth) Plane

Vertical (Elevation) Plane

Data Sheet: Rev D 12/30/18
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Radiation Patterns

2700 MHz

Horizontal (Azimuth) Plane

Vertical (Elevation) Plane
ANT-129-001
4G/LTE Cross-Polarized (MIMO) 7-10 dBi Panel Antenna

Product Dimensions

All dimensions in mm

ANTENNA - TOP

MOUNTING PLATE

SECTION A-A

CLAMP

"U" BOLT

ANTENNA - BACK

Data Sheet: Rev D 12/30/18
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Directional Antenna Installation Tips

- Determine location of nearest cell tower for your carrier (see opensignal.org or cellreception.com)
- Orient antenna so cables point downward
- Mount antenna to 2.0 inch max diameter mast or to wall as high as possible
- Point antenna toward cell tower
- Point away from:
  - other antennas
  - trees & buildings
  - large vertical metal or concrete objects
- Adjust antenna position left/right and up/down tilt to find optimal signal
- Keep coax lead cable as short as possible & weatherproof all outdoor connectors
- Observe safety codes regarding lightning protection, grounding, and mast height
ANT-129-001
4G/LTE Cross-Polarized (MIMO) 7-10 dBi Panel Antenna

Contact Information

For the latest specifications, additional product information, worldwide sales and information about Proxicast:

Web:  www.proxicast.com  Tel:  1-877-777-7694
Email:  sales@proxicast.com  1-412-213-2477

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For technical questions and application information:

Email:  support@proxicast.com

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